



IFW16

## RAW SEQUENCE LISTING

DATE: 10/07/2004

PATENT APPLICATION: US/10/057,321A

TIME: 13:29:19

Input Set : A:\16761170.app

Output Set: N:\CRF4\10072004\J057321A.raw

3 <110> APPLICANT: BLACK, ROY A.  
 4 PAXTON, RAYMOND JAMES  
 5 BODE, WOLFRAM  
 6 MASCOS, KLAUS  
 7 FERNANDEZ-CATALAN, CARLOS  
 8 CHEN, JAMES MING  
 9 LEVIN, JEREMY IAN  
 11 <120> TITLE OF INVENTION: CRYSTALLINE TNF-a-CONVERTING ENZYME AND USES THEREOF  
 13 <130> FILE REFERENCE: 016761/0170  
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/057,321A  
 C--> 16 <141> CURRENT FILING DATE: 2001-09-24  
 18 <150> PRIOR APPLICATION NUMBER: 60/073,709  
 19 <151> PRIOR FILING DATE: 1998-02-05  
 21 <160> NUMBER OF SEQ ID NOS: 10  
 23 <170> SOFTWARE: PatentIn Ver. 3.2  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 10  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 32 peptide  
 34 <400> SEQUENCE: 1  
 35 Pro Leu Ala Gln Ala Val Arg Ser Ser Ser  
 36 1 5 10  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 8  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 46 peptide  
 48 <400> SEQUENCE: 2  
 49 Gly Ser His His His His His His  
 50 1 5  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 11  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Artificial Sequence  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 60 peptide  
 62 <220> FEATURE:



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63 <221> NAME/KEY: MOD_RES
64 <222> LOCATION: (3)..(4)
65 <223> OTHER INFORMATION: variable amino acid
67 <220> FEATURE:
68 <221> NAME/KEY: MOD_RES
69 <222> LOCATION: (6)..(7)
70 <223> OTHER INFORMATION: variable amino acid
72 <220> FEATURE:
73 <221> NAME/KEY: MOD_RES
74 <222> LOCATION: (9)..(10)
75 <223> OTHER INFORMATION: variable amino acid
77 <400> SEQUENCE: 3
W--> 78 His Glu Xaa Xaa His Xaa Xaa Gly Xaa Xaa His
79      1              5              10
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 203
84 <212> TYPE: PRT
85 <213> ORGANISM: Crota1us adamanteus
87 <400> SEQUENCE: 4
88 Glu Gln Asn Leu Pro Gln Arg Tyr Ile Glu Leu Val Val Val Ala Asp
89      1              5              10              15
91 Arg Arg Val Phe Met Lys Tyr Asn Ser Asp Leu Asn Ile Ile Arg Thr
92      20              25              30
94 Arg Val His Glu Ile Val Asn Ile Ile Asn Glu Phe Tyr Arg Ser Leu
95      35              40              45
97 Asn Ile Arg Val Ser Leu Thr Asp Leu Glu Ile Trp Ser Gly Gln Asp
98      50              55              60
100 Phe Ile Thr Ile Gln Ser Ser Ser Ser Asn Thr Leu Asn Ser Phe Gly
101     65              70              75              80
103 Glu Trp Arg Glu Arg Val Leu Leu Thr Arg Lys Arg His Asp Asn Ala
104      85              90              95
106 Gln Leu Leu Thr Ala Ile Asn Phe Glu Gly Lys Ile Ile Gly Lys Ala
107     100             105             110
109 Tyr Thr Ser Ser Met Cys Asn Pro Arg Ser Ser Val Gly Ile Val Lys
110     115             120             125
112 Asp His Ser Pro Ile Asn Leu Leu Val Ala Val Thr Met Ala His Glu
113     130             135             140
115 Leu Gly His Asn Leu Gly Met Glu His Asp Gly Lys Asp Cys Leu Arg
116    145             150             155             160
118 Gly Ala Ser Leu Cys Ile Met Arg Pro Gly Leu Thr Pro Gly Arg Ser
119     165             170             175
121 Tyr Glu Phe Ser Asp Asp Ser Met Gly Tyr Tyr Gln Lys Phe Leu Asn
122     180             185             190
124 Gln Tyr Lys Pro Gln Cys Ile Leu Asn Lys Pro
125     195             200
128 <210> SEQ ID NO: 5
129 <211> LENGTH: 287
130 <212> TYPE: PRT
131 <213> ORGANISM: Homo sapiens

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133 &lt;400&gt; SEQUENCE: 5

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134 Pro Glu Glu Leu Val His Arg Val Lys Arg Arg Ala Asp Pro Asp Pro
135   1           5           10           15
137 Met Lys Asn Thr Cys Lys Leu Leu Val Val Ala Asp His Arg Phe Tyr
138           20           25           30
140 Arg Tyr Met Gly Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile
141           35           40           45
143 Glu Leu Ile Asp Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp
144           50           55           60
146 Asn Ala Gly Phe Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile
147   65           70           75           80
149 Leu Lys Ser Pro Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met
150           85           90           95
152 Ala Lys Ser Tyr Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met
153           100          105          110
155 Leu Leu Glu Gln Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val
156           115          120          125
158 Cys Leu Ala His Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu
159           130          135          140
161 Gly Leu Ala Tyr Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val
162 145          150          155          160
164 Cys Pro Lys Ser Gly Ser Ser Gly Gly Ile Cys Glu Lys Ala Tyr Tyr
165           165          170          175
167 Ser Pro Val Gly Lys Lys Asn Ser Lys Leu Tyr Ser Asp Gly Lys Lys
168           180          185          190
170 Lys Glu Ala Asp Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly
171           195          200          205
173 Ala Glu His Asp Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp
174           210          215          220
176 Gln Gly Gly Lys Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His
177 225          230          235          240
179 Glu Asn Asn Lys Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys
180           245          250          255
182 Thr Ile Glu Ser Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys
183           260          265          270
185 Val Cys Gly Asn Ser Arg Val Asp Glu Gly Glu Glu Cys Asp Pro
186           275          280          285

```

189 &lt;210&gt; SEQ ID NO: 6

190 &lt;211&gt; LENGTH: 276

191 &lt;212&gt; TYPE: PRT

192 &lt;213&gt; ORGANISM: Homo sapiens

194 &lt;400&gt; SEQUENCE: 6

```

195 Gln Glu Lys His Ala Ile Asn Gly Pro Glu Leu Leu Arg Lys Arg Arg
196   1           5           10           15
198 Thr Thr Ser Ala Glu Lys Asn Thr Cys Gln Leu Tyr Ile Gln Thr Asp
199           20           25           30
201 His Leu Phe Phe Lys Tyr Tyr Gly Thr Arg Glu Ala Val Ile Ala Gln
202           35           40           45
204 Ile Ser Ser His Val Lys Ala Ile Asp Thr Ile Tyr Gln Thr Thr Asp

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205      50      55      60
207 Phe Ser Gly Ile Arg Asn Ile Ser Phe Met Val Lys Arg Ile Arg Ile
208 65      70      75      80
210 Asn Thr Thr Ala Asp Glu Lys Asp Pro Thr Asn Pro Phe Arg Phe Pro
211      85      90      95
213 Asn Ile Ser Val Glu Lys Phe Leu Glu Leu Asn Ser Glu Gln Asn His
214      100      105      110
216 Asp Asp Tyr Cys Leu Ala Tyr Val Phe Thr Asp Arg Asp Phe Asp Asp
217      115      120      125
219 Gly Val Leu Gly Leu Ala Trp Val Gly Ala Pro Ile Tyr Leu Asn Ser
220      130      135      140
222 Gly Leu Thr Ser Thr Ser Leu Asn Thr Gly Ile Ile Thr Val Lys Asn
223 145      150      155      160
225 Tyr Gly Lys Thr Ile Leu Thr Lys Gln Asn Tyr Gly Ser His Val Pro
226      165      170      175
228 Pro Lys Val Ser His Ile Thr Phe Ala His Glu Val Gly His Asn Phe
229      180      185      190
231 Gly Ser Pro His Asp Ser Gly Thr Glu Cys Thr Pro Gly Glu Ser Lys
232      195      200      205
234 Asn Leu Gly Gln Lys Glu Asn Gly Asn Tyr Ile Met Tyr Ala Arg Ala
235      210      215      220
237 Thr Ser Gly Asp Lys Leu Asn Asn Asn Lys Phe Ser Leu Cys Ser Ile
238 225      230      235      240
240 Arg Asn Ile Ser Gln Val Leu Glu Lys Lys Arg Asn Asn Cys Phe Val
241      245      250      255
243 Glu Ser Gly Gln Pro Ile Cys Gly Asn Gly Met Val Glu Gln Gly Glu
244      260      265      270
246 Glu Cys Asp Cys
247      275
250 <210> SEQ ID NO: 7
251 <211> LENGTH: 824
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 7
256 Met Arg Gln Ser Leu Leu Phe Leu Thr Ser Val Val Pro Phe Val Leu
257 1      5      10      15
259 Ala Pro Arg Pro Pro Asp Asp Pro Gly Phe Gly Pro His Gln Arg Leu
260      20      25      30
262 Glu Lys Leu Asp Ser Leu Leu Ser Asp Tyr Asp Ile Leu Ser Leu Ser
263      35      40      45
265 Asn Ile Gln Gln His Ser Val Arg Lys Arg Asp Leu Gln Thr Ser Thr
266      50      55      60
268 His Val Glu Thr Leu Leu Thr Phe Ser Ala Leu Lys Arg His Phe Lys
269 65      70      75      80
271 Leu Tyr Leu Thr Ser Ser Thr Glu Arg Phe Ser Gln Asn Phe Lys Val
272      85      90      95
274 Val Val Val Asp Gly Lys Asn Glu Ser Glu Tyr Thr Val Lys Trp Gln
275      100      105      110
277 Asp Phe Phe Thr Gly His Val Val Gly Glu Pro Asp Ser Arg Val Leu

```

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```

278          115          120          125
280 Ala His Ile Arg Asp Asp Asp Val Ile Ile Arg Ile Asn Thr Asp Gly
281          130          135          140
283 Ala Glu Tyr Asn Ile Glu Pro Leu Trp Arg Phe Val Asn Asp Thr Lys
284 145          150          155          160
286 Asp Lys Arg Met Leu Val Tyr Lys Ser Glu Asp Ile Lys Asn Val Ser
287          165          170          175
289 Arg Leu Gln Ser Pro Lys Val Cys Gly Tyr Leu Lys Val Asp Asn Glu
290          180          185          190
292 Glu Leu Leu Pro Lys Gly Leu Val Asp Arg Glu Pro Pro Glu Glu Leu
293          195          200          205
295 Val His Arg Val Lys Arg Arg Ala Asp Pro Asp Pro Met Lys Asn Thr
296          210          215          220
298 Cys Lys Leu Leu Val Val Ala Asp His Arg Phe Tyr Arg Tyr Met Gly
299 225          230          235          240
301 Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile Glu Leu Ile Asp
302          245          250          255
304 Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp Asn Ala Gly Phe
305          260          265          270
307 Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile Leu Lys Ser Pro
308          275          280          285
310 Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met Ala Lys Ser Tyr
311          290          295          300
313 Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met Leu Leu Glu Gln
314 305          310          315          320
316 Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val Cys Leu Ala His
317          325          330          335
319 Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu Gly Leu Ala Tyr
320          340          345          350
322 Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val Cys Pro Lys Ala
323          355          360          365
325 Tyr Tyr Ser Pro Val Gly Lys Lys Asn Ile Tyr Leu Asn Ser Gly Leu
326          370          375          380
328 Thr Ser Thr Lys Asn Tyr Gly Lys Thr Ile Leu Thr Lys Glu Ala Asp
329 385          390          395          400
331 Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly Ala Glu His Asp
332          405          410          415
334 Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp Gln Gly Gly Lys
335          420          425          430
337 Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His Glu Asn Asn Lys
338          435          440          445
340 Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys Thr Ile Glu Ser
341          450          455          460
343 Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys Val Cys Gly Asn
344 465          470          475          480
346 Ser Arg Val Asp Glu Gly Glu Glu Cys Asp Pro Gly Ile Met Tyr Leu
347          485          490          495
349 Asn Asn Asp Thr Cys Cys Asn Ser Asp Cys Thr Leu Lys Glu Gly Val
350          500          505          510

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/057,321A

DATE: 10/07/2004  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 3,4,6,7,9,10

**VERIFICATION SUMMARY**

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Input Set : A:\16761170.app

Output Set: N:\CRF4\10072004\J057321A.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0